

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

WC Input by:

Date:

6/29/2023

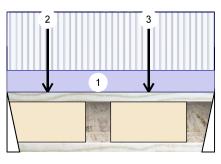
AJS 140

9.500" - PASSED

Address:



OSHAV A,ONOF PERMIT PLANS



1 Hanger (LF259) 0-2-0 2 Hanger (LF259) 0-2-0 2'8 7/8' 2'8 7/8'

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	288	108	0	0
2	Vertical	246	92	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	352 ft-lb	1'10 7/16"	4095 ft-lb	0.086 (9%)	1.25D+1.5L	L
Unbraced	352 ft-lb	1'10 7/16"	4095 ft-lb	0.086 (9%)	1.25D+1.5L	L
Shear	563 lb	1 1/4"	1830 l b	0.307 (31%)	1.25D+1.5L	L
Perm Defl in.	0.002 (L/19004)	1'8 15/16"	0.084 (L/360)	0.019 (2%)	D	Uniform
LL Defl inch	0.004 (L/7153)	1'8 15/16"	0.084 (L/360)	0.050 (5%)	L	L
TL Defl inch	0.006 (L/5197)	1'8 15/16"	0.126 (L/240)	0.046 (5%)	D+L	L

Bearings and Factored Reactions

ш								
	Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
	1 -	2.000"	Vert	36%	135 / 433	568	L	1.25D+1.5L
	Hanger							
	2 -	2.000"	Vert	30%	116 / 368	484	L	1.25D+1.5L
ı	Hanger							



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: SPF, Thickness: 2 1/2"
- 4 Right Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum

2' o.c. 7 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: EWP-FLOORS. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-14	0-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-6-7		Far Face	81 l b	216 b	0 lb	0 lb	J5
3	Point	1-10-7		Far Face	95 lb	252 lb	0 lb	0 lb	J5

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

- Handling & Installation

 1. Joist flanges must not be cut or drilled

 2. Refer to latest copy of the Libist product information details for framing details, stiffener tables, web hole charb, bridging details, multi-byt fastening details and handling/erection details

 3. Damaged bloists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation. For flat roofs provide proper drainage to prevent pointing.

 For flat roofs provide proper drainage to prevent pointing.

 This:

 This:

Manufacturer Info

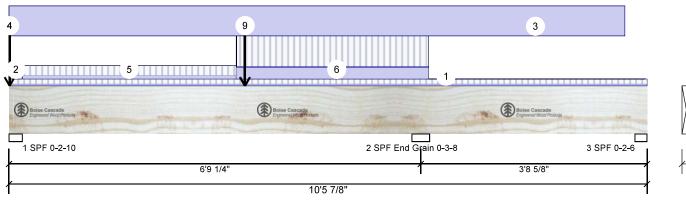
Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.







	Member Inform	nation		
ſ	Туре:	Girder	Application:	Floor (Residential)
l	Plies:	3	Design Method:	LSD
l	Moisture Condition:	Dry	Building Code:	NBCC 2015
l	Deflection LL:	360		OBC 2012(2020 Update)
l	Deflection TL:	240	Load Sharing:	Yes
l	Importance:	Normal - II	Deck:	Not Checked
l	General Load		Vibration:	Not Checked
l	Floor Live:	40 PSF		
l	Dead:	15 PSF		
I				

Unfactored	Reactions	UNPATTERNED	b	(Uplift)
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Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3101	1514	0	0
2	Vertical	1071	1001	0	0
3	Vertical	0 (-219)	(-54)	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.625"	Vert	77%	1891 / 4651	6542	L_	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	15%	1256 / 1614	2870	LL	1.25D+1.5L
3 CDE	2 375"	Vert	0%	0/0	0 (-431)		(1.25D+1.5L)



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Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2184 ft-lb	6'9 1/4"	36222 ft-lb	0.060 (6%)	1.25D+1.5L	LL
Unbraced	-2184 ft-lb	6'9 1/4"	36222 ft-lb	0.060 (6%)	1.25D+1.5L	LL
Pos Moment	2598 ft-lb	3'10 9/16"	36222 ft-lb	0.072 (7%)	1.25D+1.5L	L_
Unbraced	2598 ft-lb	3'10 9/16"	36222 ft-lb	0.072 (7%)	1.25D+1.5L	L_
Shear	1798 lb	5'10"	15860 lb	0.113 (11%)	1.25D+1.5L	LL
Perm Defl in.	0.006 (L/12828)	3'4 1/16"	0.220 (L/360)	0.028 (3%)	D	Uniform
LL Defl inch	0.009 (L/9310)	3'5 7/16"	0.220 (L/360)	0.039 (4%)	L	L_
TL Defl inch	0.015 (L/5397)	3'4 13/16"	0.331 (L/240)	0.044 (4%)	D+L	L_

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Tie-down connection required at bearing 3 for uplift 431 lb (Combination 1.25D+1.5L, Load
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at a maximum of 3'10 9/16" o.c.
- 8 Lateral slenderness ratio based on full section width.

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

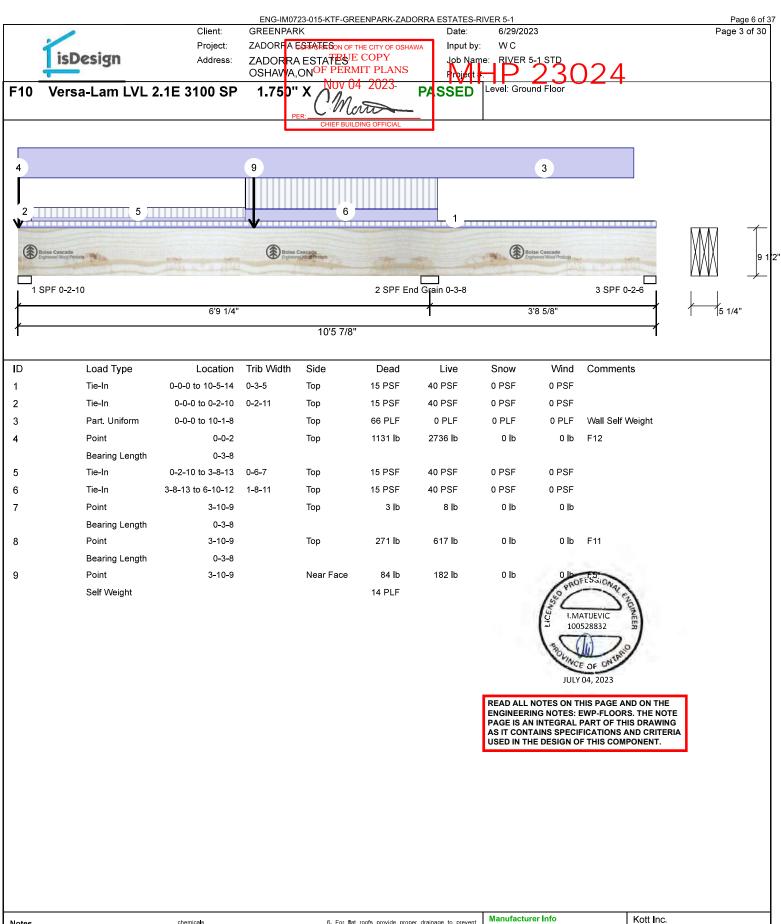
Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ray fastening details, beam strength values, and code approvals

approvals
Damaged Beams must not be used
Design assumes top edge is laterally restrained
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Client: **GREENPARK**

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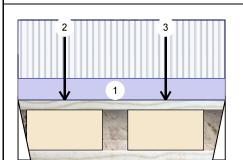
Date: WC Input by:

Page 4 of 30 6/29/2023

AJS 140

9.500" - PASSED





1 Hanger (LF259) 0-2-0 2 Hanger (LF259) 0-2-0 2'8 13/16" 2'8 13/16'

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition: Deflection LL:	Dry 360	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		
Dead:	15 PSF		

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	286 ft-lb	1'11 3/8"	4095 ft-lb	0.070 (7%)	1.25D+1.5L	L
Unbraced	286 ft-lb	1'11 3/8"	4095 ft-lb	0.070 (7%)	1.25D+1.5L	L
Shear	472 l b	1 1/4"	1830 lb	0.258 (26%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/22728)	1'6 11/16"	0.084 (L/360)	0.016 (2%)	D	Uniform
LL Defl inch	0.004 (L/8523)	1'6 11/16"	0.084 (L/360)	0.042 (4%)	L	L
TL Defl inch	0.005 (L/6199)	1'6 11/16"	0.126 (L/240)	0.039 (4%)	D+L	L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: SPF, Thickness: 2 1/2"
- 4 Right Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 7 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o c

Unfactored	Reactions	UNPATTERNED Ib	(Uplift)
		O	(

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	242	91	0	0
2	Vertical	224	84	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. Re	act D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	30%	114 / 363	477	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	28%	105 / 335	440	L	1.25D+1.5L



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	-1-1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-8-13	0-7-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-7-6		Far Face	72 l b	192 l b	0 lb	0 l b	J4
3	Point	1-11-6		Far Face	78 l b	208 lb	0 lb	0 lb	J4

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Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

- Handling & Installation

 1. Joist flanges must not be cut or drilled

 2. Refer to latest copy of the Libist product information details for framing details, stiffener tables, web hole charb, bridging details, multi-byt fastening details and handling/erection details

 3. Damaged bloists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

 23040401.276 for 1

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Page 5 of 30



Client: **GREENPARK** Project:

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Date: 6/29/2023 W C Input by:

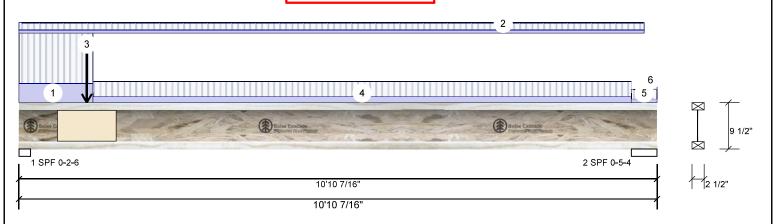
Job Name:

F2 **AJS 140** 9.500" - PASSED

Address:



Level: Ground Floor



Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	re	Dead	9	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	39	93	147		0	0
Moisture Condition	: Dry	Building Code:	NBCC 2015	2	Vertical	17	0	64		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	ings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	ring Length	Dir. (Сар.	React D/L Ib	Total L	Ld. Case	Ld. Comb.
				1 - 3	SPF 2.375"	Vert	47%	184 / 590	774 L	L	1.25D+1.5L
				2 - :	SPF 5.250"	Vert	18%	80 / 254	334 L	L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	978 ft-lb	4'4 3/4"	4095 ft-lb	0.239 (24%)	1.25D+1.5L	L
Unbraced	978 ft-lb	4'4 3/4"	4095 ft-lb	0.239 (24%)	1.25D+1.5L	L
Shear	756 l b	1 5/8"	1830 lb	0.413 (41%)	1.25D+1.5L	L
Perm Defl in	0.024 (L/5247)	5' 3/8"	0.345 (L/360)	0.069 (7%)	D	Uniform
LL Defl inch	0.063 (L/1968)	5' 3/8"	0.345 (L/360)	0.183 (18%)	L	L
TL Defl inch	0.087 (L/1431)	5' 3/8"	0.518 (L/240)	0.168 (17%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 9'8 9/16" o.c.



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7 000	om hange must be laterally t	Stacca at a maximum	01 0 0 0/10 0.0	•					
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-3-2	1-5-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 10-7-13	0-2-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-14		Far Face	84 lb	224 lb	0 lb	0 lb	F1
4	Tie-In	1-3-2 to 10-5-3	0-5-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	10-5-3 to 10-10-7	0-3-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	10-7-13 to 10-10-7	0-2-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 6 of 30



Client: **GREENPARK** Project:

ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY OSHAVA,ONOF PERMIT PLANS

Date: 6/29/2023 W C Input by:

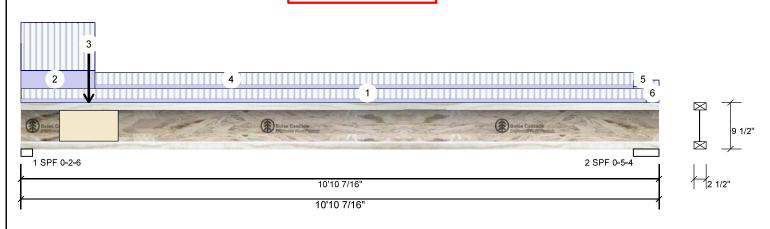
AJS 140 F2-A

9.500" - PASSED

Address:

Morto

Level: Ground Floor



Member Infori	mation			Unfa	actored Rea	actions	UNP	ATTERNED II	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		413	155	0	0
Moisture Condition Deflection LL:	•	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical		172	64	0	0
Deflection LL:	360 240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load Floor Live:	40 PSF	Vibration:	Not Checked	Roa	ings and F	actoro	l Pas	rtions		
				-						
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L I b	Total Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	49%	194 / 620	814 L	1.25D+1.5L
				2 -	SPF 5.250"	Vert	18%	81 / 257	338 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1002 ft-lb	4'3 13/16"	4095 ft-lb	0.245 (24%)	1.25D+1.5L	L
Unbraced	1002 ft-lb	4'3 13/16"	4095 ft-lb	0.245 (24%)	1.25D+1.5L	L
Shear	795 l b	1 5/8"	1830 l b	0.434 (43%)	1.25D+1.5L	L
Perm Defl in.	0.024 (L/5121)	5' 3/16"	0.345 (L/360)	0.070 (7%)	D	Uniform
LL Defl inch	0.065 (L/1922)	5' 3/16"	0.345 (L/360)	0.187 (19%)	L	L
TL Defl inch	0.089 (L/1397)	5' 3/16"	0.518 (L/240)	0.172 (17%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 9'8 9/16" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 10-7-13	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-3-2	1-5-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-14		Near Face	91 l b	242 lb	0 lb	0 l b	F1
4	Tie-In	1-3-2 to 10-5-3	0-4-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	10-5-3 to 10-10-7	0-2-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	10-7-13 to 10-10-7	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

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Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Page 7 of 30



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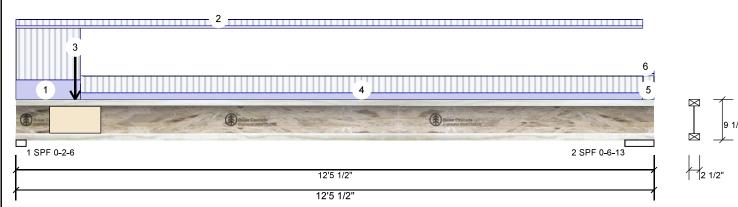
ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY Address:

Date: 6/29/2023 W C Input by:

F3 **AJS 140** 9.500" - PASSED



Job Name: Level: Ground Floor



Member Inforn	nation			Unf	actored Rea	actions	UNP	ATTERNED II	o (Upli	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	L	.ive	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical		434	162		0	0
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical		194	73		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bea	rings and Fa	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	52%	203 / 650	853	L	1.25D+1.5L
				2 -	SPF 6.813"	Vert	21%	91 / 292	383	L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1208 ft-lb	5'2"	4095 ft-lb	0.295 (30%)	1.25D+1.5L	L
Unbraced	1208 ft-lb	5'2"	4095 ft-lb	0.295 (30%)	1.25D+1.5L	L
Shear	836 lb	1 5/8"	1830 l b	0.457 (46%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/3848)	5'9 5/16"	0.394 (L/360)	0.094 (9%)	D	Uniform
LL Defl inch	0.098 (L/1442)	5'9 5/16"	0.394 (L/360)	0.250 (25%)	L	L
TL Defl inch	0.135 (L/1049)	5'9 5/16"	0.591 (L/240)	0.229 (23%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o c
- 4 Bottom flange must be laterally braced at a maximum of 11'3 5/8" o.c.



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: EWP-FLOORS. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

-	in hange much be laterally i	bracca at a maximum	01 11 0 0/0 0.0	•					
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-3-2	1-5-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-2-14	0-2-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	1-1-14		Far Face	92 lb	246 lb	0 l b	0 lb	F1
4	Tie-In	1-3-2 to 12-2-14	0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
5	Tie-In	12-2-14 to 12-5-8	0-5-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
6	Tie-In	12-2-14 to 12-5-8	0-2-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
I									

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400



This design is valid until 4/17/2026 CSD DESIGN



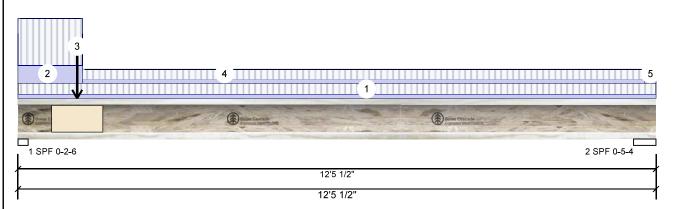
ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY Address: OSHAV<mark>VA,ONOF PERMIT PLANS</mark>

Date: 6/29/2023 W C Input by:

Job Name: _evel: Ground Floor

F3-A **AJS 140** 9.500" - PASSED







Member Information

Type: Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Not Checked Deck:

Vibration: Not Checked **Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	482	181	0	0
2	Vertical	196	74	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	57%	226 / 723	949	L	1.25D+1.5L
2 - SPF	5.250"	Vert	21%	92 / 295	387	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1282 ft-lb	5'1 1/8"	4095 ft-lb	0.313 (31%)	1.25D+1.5L	L
Unbraced	1282 ft-lb	5'1 1/8"	4095 ft-lb	0.313 (31%)	1.25D+1.5L	L
Shear	930 lb	1 5/8"	1830 l b	0.508 (51%)	1.25D+1.5L	L
Perm Defl in.	0.040 (L/3594)	5'9 11/16"	0.398 (L/360)	0.100 (10%)	D	Uniform
LL Defl inch	0.106 (L/1348)	5'9 11/16"	0.398 (L/360)	0.267 (27%)	L	L
TL Defl inch	0.146 (L/980)	5'9 11/16"	0.597 (L/240)	0.245 (24%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o c
- 4 Bottom flange must be laterally braced at a maximum of 11'3 5/8" o.c.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 12-5-8	0-4-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Tie-In	0-0-0 to 1-3-2	1-5-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
3	Point	1-1-14		Near Face	108 l b	288 lb	0 lb	0 lb	F1	
4	Tie-In	1-3-2 to 12-2-14	0-3-13	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
5	Tie-In 1	12-2-14 to 12-5-8	0-3-13	Top	15 PSF	40 PSF	0 PSF	0 PSF		

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the IJoist product information
 details for framing details, stiffener tables, web hole
 chart, bridging details, multi-rily fastening details and
 handling/erection details

 3. Damaged IJoists must not be used
 4. Design assumes top flange to be laterally restrained
 by attached sheathing or as specified in engineering
 notes.

- Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length=3.5 inches
 For flat roofs provide proper drainage to prevent

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Manufacturer Info

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 9 of 30



Client: **GREENPARK** Project:

Address:

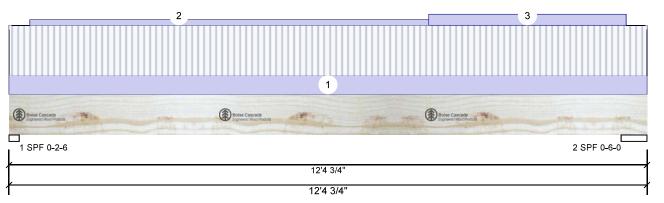
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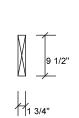
Date: 6/29/2023 W C Input by:

Job Name: Level: Ground Floor

Versa-Lam LVL 2.1E 3100 SP F4

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> SSED 750





Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF Dead: 15 PSF

Floor (Residential)

Design Method:	LSD
Building Code:	NBCC 2015 OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	55	55	0	0
2	Vertical	58	61	0	0

Bearings and Factored Reactions

Bearing Ler	ngth Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF 2.3	75" Vert	6%	69 / 82	152	L	1.25D+1.5L
2 - SPF 6.0	31" Vert	3%	76 / 87	163	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	442 ft-lb	6' 15/16"	11494 ft-lb	0.038 (4%)	1.25D+1.5L	L
Unbraced	442 ft-lb	6' 15/16"	11494 ft-lb	0.038 (4%)	1.25D+1.5L	L
Shear	134 lb	11'1 3/16"	5234 lb	0.026 (3%)	1.25D+1.5L	L
Perm Defl in.	0.016 (L/8991)	6' 13/16"	0.394 (L/360)	0.040 (4%)	D	Uniform
LL Defl inch	0.015 (L/9271)	6' 9/16"	0.394 (L/360)	0.039 (4%)	L	L
TL Defl inch	0.031 (L/4564)	6' 11/16"	0.591 (L/240)	0.053 (5%)	D+L	L

Application:



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at bearings.



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-4-12	0-2-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-4-14 to 8-1-14		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	8-1-14 to 11-11-14		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				5 PLF				

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Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 10 of 30



Client: Project: Address: **GREENPARK**

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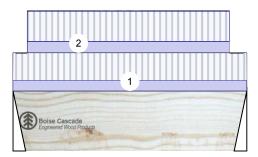
Level: Ground Floor

Job Name: Froject:

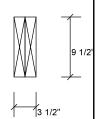
Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750 ' X S

'A\$SED







Member Information

Girder	Application:	Floor (Residential)
2	Design Method:	LSD
Dry	Building Code:	NBCC 2015
360		OBC 2012(2020 Update)
240	Load Sharing:	No
Normal - II	Deck:	Not Checked
	Vibration:	Not Checked
40 PSF		
15 PSF		
	2 Dry 360 240 Normal - II	2 Design Method: Dry Building Code: 360 240 Load Sharing: Deck: Vibration: 40 PSF

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	
1	Vertical	182	84	0	0	
2	Vertical	179	83	0	0	

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	269 ft-lb	1'6 1/2"	23220 ft-lb	0.012 (1%)	1.25D+1.5L	L
Unbraced	269 ft-lb	1'6 1/2"	23220 ft-lb	0.012 (1%)	1.25D+1.5L	L
Shear	254 lb	2'1 1/2"	10574 l b	0.024 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/183855)	1'6 9/16"	0.096 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/83903)	1'6 9/16"	0.096 (L/360)	0.004 (0%)	L	L
TL Defl inch	0.001 (L/57612)	1'6 9/16"	0.144 (L/240)	0.004 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
•	2.000"	Vert	5%	105 / 273	378	L	1.25D+1.5L
Hanger			=0.				
2 - Hanger	2.000"	Vert	5%	104 / 269	372	L	1.25D+1.5L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 5 1/4"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.



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Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

Manufacturer Info

(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

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Page 11 of 30



Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

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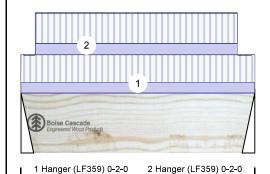
Job Name: RIVER 5-1 STD

Versa-Lam LVL 2.1E 3100 SP

lov 04 2023 1.750 ' X § Mort

Froject # 'A\$SED

Level: Ground Floor



	3'1"	1
1	3'1"	1

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-1-0		Тор	23 PLF	60 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-2-4 to 2-10-4		Near Face	25 PLF	66 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF				



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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Manufacturer Info

Boise Cascade Wood Products

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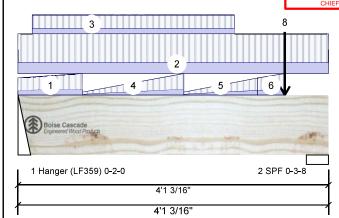
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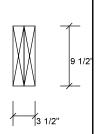
Page 12 of 30 6/29/2023

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750 ' X S 'A\$SED

Froject: Level: Ground Floor





Member Information Type:

Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

General Load Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

-						
	Brg	Direction	Live	Dead	Snow	Wind
	1	Vertical	140	71	0	0
	2	Vertical	130	69	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	263 ft-lb	1'11 7/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L	L
Unbraced	263 ft-lb	1'11 7/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L	L
Shear	193 lb	3' 3/16"	10574 l b	0.018 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/139085)	1'11 13/16"	0.125 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.001 (L/71158)	1'11 3/4"	0.125 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.001 (L/47074)	1'11 3/4"	0.188 (L/240)	0.005 (1%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	4%	89 / 210	299	L	1.25D+1.5L
2 - SPF	3.500"	Vert	4%	87 / 195	282	L	1.25D+1.5L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 3.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Fill all hanger nailing holes.
- 4 Left Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.



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Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled
Refer to manufacturer's product information
regarding installation requirements, multi-pty
fastening details, beam strength values, and code
approvals Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Boise. ID 83702

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.







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Date: 6/29/2023 Input by:

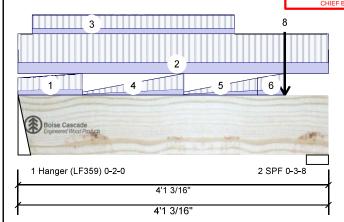
WC Job Name:

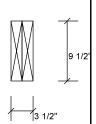
Versa-Lam LVL 2.1E 3100 SP

Load Type

OSHAV A,ONOF PERMIT PLANS ov 04 2023 1.750 ' X § 'A\$SED Morto

Froject # Level: Ground Floor





1	Tie-In	0-0-0 to 0-10-4	0-5-3 to 0-6-8	Тор	15 PSF	40 PSF	0 PSF
2	Part. Uniform	0-0-0 to 4-1-3		Тор	15 PLF	40 PLF	0 PLF
3	Part. Uniform	0-2-4 to 2-10-4		Near Face	7 PLF	19 PLF	0 PLF
4	Tie-In	0-10-4 to 2-2-4	0-0-14 to 0-6-8	Тор	15 PSF	40 PSF	0 PSF
5	Tie-In	2-2-4 to 3-1-15	0-0-14 to 0-5-2	Тор	15 PSF	40 PSF	0 PSF
6	Tie-In	3-1-15 to 3-6-4	0-5-2 to 0-6-8	Тор	15 PSF	40 PSF	0 PSF
7	Point	3-6-4		Тор	2 lb	4 lb	0 lb
	Bearing Length	0-3-8					
8	Point	3-6-4		Тор	1 lb	2 l b	0 lb
	Bearing Length	0-3-8					
	Self Weight				9 PLF		

Location Trib Width

Side

Dead

Live

Snow

Wind

0 PSF 0 PLF

0 PLF 0 PSF

0 PSF

0 PSF 0 lb

0 lb

Comments



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: EWP-FLOORS. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

ID

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







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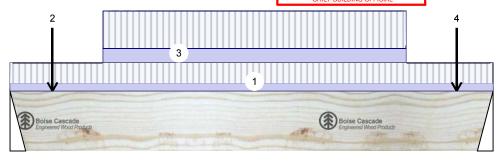
Level: Ground Floor

Date:

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750 X S 'A\$SED



1 Hanger (HUC410 (Min)) 0-2-8

15 PSF

2 Hanger (HUC410 (Min)) 0-2-8

6'4 1/2'

6'4 1/2"

Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	620	262	0	0
2	Vertical	626	264	0	0

Analysis Results

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	1860 ft-lb	3'2 1/4"	23220 ft-lb	0.080 (8%)	1.25D+1.5L	L
Unbraced	1860 ft-lb	3'2 1/4"	23220 ft-lb	0.080 (8%)	1.25D+1.5L	L
Shear	1125 lb	5'4 1/2"	10574 l b	0.106 (11%)	1.25D+1.5L	L
Perm Defl in.	0.005 (L/14528)	3'2 1/4"	0.203 (L/360)	0.025 (2%)	D	Uniform
LL Defl inch	0.012 (L/6134)	3'2 1/4"	0.203 (L/360)	0.059 (6%)	L	L
TL Defl inch	0.017 (L/4313)	3'2 1/4"	0.304 (L/240)	0.056 (6%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.500"	Vert	13%	328 / 930	1258	L	1.25D+1.5L
2 - Hanger	2.500"	Vert	13%	330 / 939	1270	L	1.25D+1.5L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.



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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. UVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used

Dariga Beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

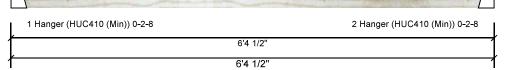
www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 6-4-8	1-9-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-6-12		Near Face	50 lb	134 l b	0 lb	0 lb	J3
3	Part. Uniform	1-2-12 to 5-2-12		Near Face	49 PLF	131 PLF	0 PLF	0 PLF	
4	Point	5-10-12		Near Face	48 l b	129 l b	0 lb	0 lb	J3
	Self Weight				9 PLF				



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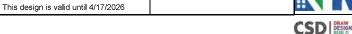
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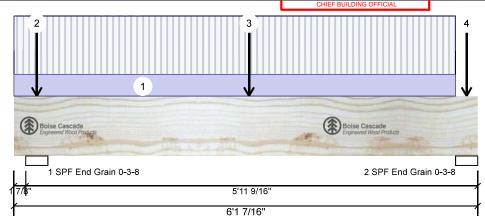
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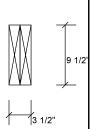
6/29/2023 W C Input by:

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750")

- PASSED Level: Ground Floor





Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II General Load

> 40 PSF 15 PSF

Application: Floor (Residential) Design Method: LSD

Building Code: NBCC 2015 OBC 2012(2020 Update)

Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1003	472	0	0
2	Vertical	1487	664	0	0

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4851 ft-lb	3'1 3/16"	23220 ft-lb	0.209 (21%)	1.25D+1.5L	_L
Unbraced	4851 ft-lb	3'1 3/16"	23220 ft-lb	0.209 (21%)	1.25D+1.5L	_L
Shear	1770 l b	5' 7/16"	10574 l b	0.167 (17%)	1.25D+1.5L	_L
Perm Defl in.	0.010 (L/7056)	3'1 3/16"	0.186 (L/360)	0.051 (5%)	D	Uniform
LL Defl inch	0.021 (L/3186)	3'1 3/16"	0.186 (L/360)	0.113 (11%)	L	_L
TL Defl inch	0.031 (L/2195)	3'1 3/16"	0.279 (L/240)	0.109 (11%)	D+L	_L
LL Cant	-0.002 (2L/2203)	Lt Cant	0.200 (2L/360)	0.008 (1%)	L	_L
TL Cant	-0.002 (2L/1517)	Lt Cant	0.300 (2L/240)	0.008 (1%)	D+L	_L

Bearings and Factored Reactions

Bearing Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500" End Grain	Vert	16%	590 / 1504	2094	LL	1.25D+1.5L
2 - SPF 3.500" End Grain	Vert	24%	830 / 2231	3061	_L	1.25D+1.5L
		10	/			

I.MATUEVIC 100528832

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 5'8 1/16" o.c.
- 7 Lateral slenderness ratio based on full section width.

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JULY 04, 2023

Notes

Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

andling & installation
LVL beams must not be cut or drilled
Refer to manufacturer's product information
regarding installation requirements, multi-ply
fastening details, beam strength values, and code
approvals
Damaged Beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







Address:

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Date: 6/29/2023 Input by:

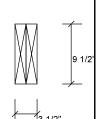
WC Job Name:

Versa-Lam LVL 2.1E 3100 SP

lov 04 2023 1.750") Morto

Froject + - PASSED Level: Ground Floor

1 . 1 SPF End Grain 0-3-8 2 SPF End Grain 0-3-8 5'11 9/16' 6'1 7/16'



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 5-9-15	0-3-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-10		Near Face	71 l b	140 l b	0 l b	0 lb	F6
3	Point	3-1-3		Тор	716 l b	1651 l b	0 lb	0 lb	C3
	Bearing Length	0-3-8							
4	Point	5-11-11		Far Face	264 lb	626 lb	0 l b	0 l b	F7
	Self Weight				9 PLF				



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Handling & Installation

Handling & Installation

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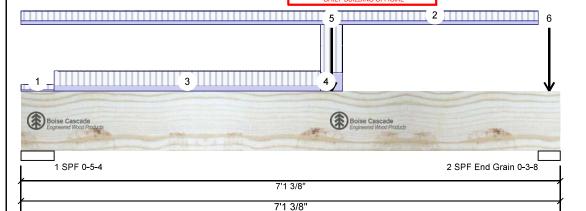
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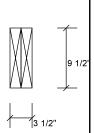
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Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" 2

- PASSED Level: Ground Floor





Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II General Load

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

Design Method: LSD

Building Code: NBCC 2015 OBC 2012(2020 Update)

Load Sharing:

Not Checked Deck: Vibration:

Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	192	113	0	0
2	Vertical	799	371	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	4%	142 / 288	430	L	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	13%	464 / 1199	1663	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	973 ft-lb	4'1 3/16"	23220 ft-lb	0.042 (4%)	1.25D+1.5L	L
Unbraced	973 ft-lb	4'1 3/16"	23220 ft-lb	0.042 (4%)	1.25D+1.5L	L
Shear	380 lb	6' 3/8"	10574 lb	0.036 (4%)	1.25D+1.5L	L
Perm Defl in	0.003 (L/24217)	3'8 3/8"	0.217 (L/360)	0.015 (1%)	D	Uniform
LL Defl inch	0.006 (L/13431)	3'8 1/2"	0.217 (L/360)	0.027 (3%)	L	L
TL Defl inch	0.009 (L/8640)	3'8 7/16"	0.326 (L/240)	0.028 (3%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	0-2-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 6-9-14	0-4-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Tie-In	0-5-4 to 3-11-7	0-6-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Tie-In	3-11-7 to 4-2-15	1-8-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Continued on page 2...

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ray fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

www.bc.com CCMC: 12472





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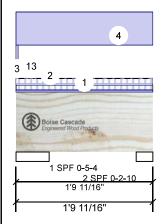
Date: 6/29/2023 W C Input by:

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750 ' X S

Froject # 'A\$SED



Member Information

Туре:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

Floor Live: 40 PSF 15 PSF Dead:

Application: Floor (Residential)

> Design Method: LSD **Building Code: NBCC 2015**

OBC 2012(2020 Update) Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	20	86	0	0
2	Vertical	16	66	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	5.250"	Vert	2%	107 / 30	138	L	1.25D+1.5L
2 - SPF	2.625"	Vert	3%	82 / 24	106	L	1.25D+1.5L

I.MATIJEVIC 100528832

JULY 04, 2023 READ ALL NOTES ON THIS PAGE AND ON THE

ENGINEERING NOTES: EWP-FLOORS. THE NOTE

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USED IN THE DESIGN OF THIS COMPONENT.

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	27 ft-lb	1' 1/8"	16021 ft-lb	0.002 (0%)	1.25D+1.5L	L
Unbraced	27 ft-lb	1' 1/8"	16021 ft-lb	0.002 (0%)	1.25D+1.5L	L
Shear	20 lb	1'2 3/4"	7296 lb	0.003 (0%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/1024588)	1' 3/16"	0.042 (L/360)	0.000 (0%)	D	Uniform
LL Defl inch	0.000 (L/4250349)	1' 3/16"	0.042 (L/360)	0.000 (0%)	L	L
TL Defl inch	0.000 (L/825575)	1' 3/16"	0.064 (L/240)	0.000 (0%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.

				0					
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-9-11	0-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-9-11	0-3-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-0-0 to 0-0-5		Тор	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 1-9-11		Тор	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight

Continued on page 2...

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Manufacturer Info Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400



Page 21 of 30



Client: Project: Address: **GREENPARK** ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS

Date: 6/29/2023 Input by: WC

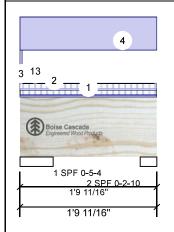
Job Name:

Versa-Lam LVL 2.1E 3100 SP

Nov 04 2023 1.750 ' X S Morto

Frojedt 'ASSED

Level: Ground Floor



	1
$\bigvee \bigvee$	9 1/2'
3 1/2	"

Continued	from page 1								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
5	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
6	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
7	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
8	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
9	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
10	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
11	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
12	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
13	Tapered Start	0-2-7		Тор	1 PLF	4 PLF	0 PLF	0 PLF	
	End	0-2-7			1 PLF	4 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF				OF



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Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

Manufacturer Info

(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







GREENPARK ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES COPY

6/29/2023 Date: W C Input by:

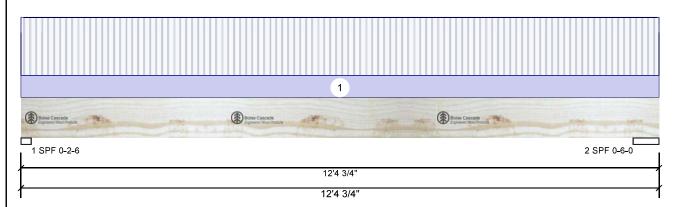
Froject:

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750 ' X S

Level: Ground Floor 'A\$SED





Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

> 40 PSF 15 PSF

Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Not Checked

Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	98	94	0	0
2	Vertical	103	99	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. I	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	118 / 147	265	L	1.25D+1.5L
2 - SPF	6.031"	Vert	2%	124 / 155	278	L	1.25D+1.5L

Analysis Results

General Load

Floor Live:

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	766 ft-lb	6' 9/16"	23220 ft-lb	0.033 (3%)	1.25D+1.5L	L
Unbraced	766 ft-lb	6' 9/16"	23220 ft-lb	0.033 (3%)	1.25D+1.5L	L
Shear	231 lb	11 7/8"	10574 lb	0.022 (2%)	1.25D+1.5L	L
Perm Defl in	0.013 (L/10826)	6' 9/16"	0.394 (L/360)	0.033 (3%)	D	Uniform
LL Defl inch	0.014 (L/10363)	6' 9/16"	0.394 (L/360)	0.035 (3%)	L	L
TL Defl inch	0.027 (L/5295)	6' 9/16"	0.591 (L/240)	0.045 (5%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at bearings.
- 7 Lateral slenderness ratio based on full section width.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-4-12	0-4-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

Notes

Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.







Address:

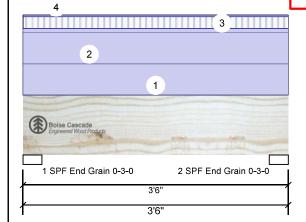
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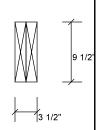
6/29/2023 WC Input by:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" X

Level: Ground Floor **PASSED**





Member Information

Type:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	33	213	0	0
2	Vertical	33	213	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	220 lb	2'5 1/2"	6873 lb	0.032 (3%)	1.25D+1.5L	L
Perm Defl in	0.001 (L/68776)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.000 (L/439686)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.001 (L/59473)	1'9"	0.156 (L/240)	0.004 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.

7 Lateral slenderness ratio based on full section width.



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I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0		Тор	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-6-0		Near Face	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Near Face	7 PLF	19 PLF	0 PLF	0 PLF	
	End	3-6-0			7 PLF	19 PLF	0 PLF	0 PLF	

Continued on page 2...

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. IVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario



613-838-2775 / 905-642-4400



Client: **GREENPARK**

Project: ZADORFA ESTATESON OF THE CITY OF OSHAWA ZADORRA ESTATES E COPY OSHAWA, ONOF PERMIT PLANS Address:

Date: 6/29/2023 Input by:

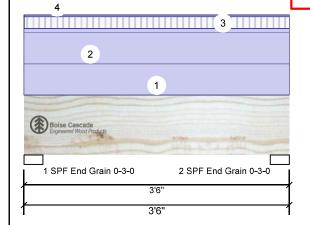
W C

Job Name: Froject #

Versa-Lam LVL 2.1E 3100 SP FH5

ov 04 2023 -1.750" X Morto

Level: Ground Floor PASSED



.Continued from page 1

ID Location Trib Width Comments Load Type Side Live Snow Wind Dead Part. Uniform 0-0-0 to 3-6-0 Near Face 3 PLF 0 PLF 0 PLF 0 PLF Rim Board Self Weight 4

> Self Weight 9 PLF



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Handling & Installation

Handling & Installation

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4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Kott Inc.



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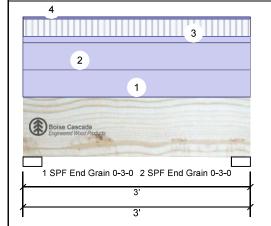
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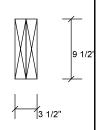
Page 23 of 32 6/29/2023

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750" X

Level: Ground Floor **PASSED**





Member Information

Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	39	157	0	0
2	Vertical	39	39 157		0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	146 ft-lb	1'6"	16254 ft-lb	0.009 (1%)	1.25D+1.5L	L
Unbraced	146 ft-lb	1'6"	16254 ft-lb	0.009 (1%)	1.25D+1.5L	L
Shear	171 l b	1' 1/2"	7401 lb	0.023 (2%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/130052)	1'6"	0.088 (L/360)	0.003 (0%)	D	Uniform
LL Defl inch	0.000 (L/522544)	1'6"	0.088 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.000 (L/104135)	1'6"	0.131 (L/240)	0.002 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	3%	196 / 59	254	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	3%	196 / 59	254	L	1.25D+1.5L



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 3' o.c.
- 6 Bottom must be laterally braced at a maximum of 3' o.c.
- 7 Lateral slenderness ratio based on full section width.

100528832 WCE OF JULY 04, 2023

PROFESSION

I.MATIJEVIC

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ID	Load Type	Location Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-0-0	Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-0-0	Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0	Near Face	10 PLF	26 PLF	0 PLF	0 PLF	
	End	3-0-0		10 PLF	26 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 24 of 32



Client: **GREENPARK** Project:

Address:

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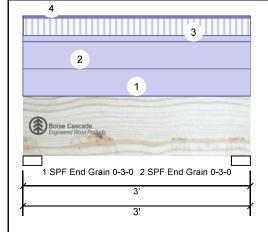
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RIVER 5-1 DC Job Name: Froject #

Versa-Lam LVL 2.1E 3100 SP

ov 04 2023 -1.750" X Morto

PASSED Level: Ground Floor



Part. Uniform

.Continued from page 1

4

ID Location Trib Width Side Load Type Live Wind Comments Dead Snow Near Face

3 PLF

0 PLF

0 PLF

0 PLF

Rim Board Self Weight

Self Weight 9 PLF

0-0-0 to 3-0-0



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Handling & Installation

Handling & Installation

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2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

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4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

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Manufacturer Info

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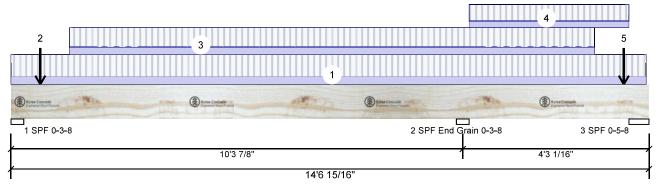
Date: 6/29/2023 W C Input by:

Job Name: Froject:

Versa-Lam LVL 2.1E 3100 SP

OSHAV A,ONOF PERMIT PLANS 1.750" X

PASSED Level: Second Floor





М	em	ber	Inf	form	ation

Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

			-	•	
Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	617	271	0	0
2	Vertical	1651	716	0	0
3	Vertical	72	27	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2987 ft-lb	10'3 7/8"	23220 ft-lb	0.129 (13%)	1.25D+1.5L	LL
Pos Moment	2547 ft-lb	4'4 1/4"	23220 ft-lb	0.110 (11%)	1.25D+1.5L	L_
Unbraced	2547 ft-lb	4'4 1/4"	23220 ft-lb	0.110 (11%)	1.25D+1.5L	L_
Shear	1543 lb	9'4 5/8"	10574 l b	0.146 (15%)	1.25D+1.5L	LL
Perm Defl in.	0.016 (L/7642)	4'9 1/4"	0.336 (L/360)	0.047 (5%)	D	Uniform
LL Defl inch	0.038 (L/3168)	4'9 7/8"	0.336 (L/360)	0.114 (11%)	L	L_
TL Defl inch	0.054 (L/2240)	4'9 11/16"	0.505 (L/240)	0.107 (11%)	D+L	L_

Bearings and Factored Reactions

Bearing	Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	17%	338 / 940	1279	L_	1.25D+1.5L
2 - SPF End Grain	3.500"	Vert	26%	897 / 2482	3380	LL	1.25D+1.5L
3 - SPF	5.500"	Vert	6%	32 / 630	662 (-465)	ᅶ	1.25D+1.5L (0.9D+1.5L)



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Tie-down connection required at bearing 3 for uplift 465 lb (Combination 0.9D+1.5L, Load Case L_).
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.



JULY 04, 2023

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-6-2	1-11-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-8-1		Near Face	28 l b	76 l b	0 l b	0 l b	J2
3	Part. Uniform	1-4-1 to 13-4-1		Near Face	26 PLF	70 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- 1. UVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Manufacturer Info

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







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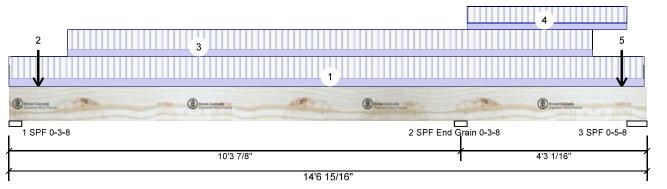
Date: 6/29/2023 Input by: WC

Job Name:

Versa-Lam LVL 2.1E 3100 SP

ov 04 2023 1.750" X Morto

Frojedt # Level: Second Floor PASSED





..Continued from page 1

H	D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
4	ļ	Part. Uniform	10-5-10 to 14-1-7		Тор	23 PLF	60 PLF	0 PLF	0 PLF	
5	5	Point	14-0-1		Near Face	31 l b	82 l b	0 lb	0 l b	J2
		Self Weight				9 PLF				



JULY 04, 2023

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400







Address:

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6/29/2023 Date: W C Input by:

Job Name:

Versa-Lam LVL 2.1E 3100 SP

OSHAV<mark>VA,ONOF PERMIT PLANS</mark> 1.750" X

Level: Second Floor **PASSED**

3 5 8 Bosse Cascada 2 SPF 0-4-12 1 SPF 0-3-8 14'6 1/8'

14'6 1/8'



Ld. Comb.

1.25D+1.5L

1.25D+1.5L

Total Ld. Case

5517 L

5719 L

Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF

Application: Floor (Residential) Design Method: LSD

Building Code: NBCC 2015 OBC 2012(2020 Update)

Load Sharing: Deck: Not Checked Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Bearings and Factored Reactions

Dir.

Vert

Vert

Bearing Length

1 - SPF 3.500"

2 - SPF 4.750"

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	2736	1131	0	0
2	Vertical	2807	1207	0	0

Cap. React D/L lb

37%

1413 / 4104

1508 / 4211

Dead: 15 PSF

Floor Live:

<u>, </u>						
Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	18816 ft-lb	7'2 1/2"	36222 ft-lb	0.519 (52%)	1.25D+1.5L	L
Unbraced	18816 ft-lb	7'2 1/2"	36222 ft-lb	0.519 (52%)	1.25D+1.5L	L
Shear	5739 lb	1'1"	15860 lb	0.362 (36%)	1.25D+1.5L	L
Perm Defl in.	0.173 (L/968)	7'2 9/16"	0.465 (L/360)	0.372 (37%)	D	Uniform
LL Defl inch	0.417 (L/402)	7'2 1/2"	0.465 (L/360)	0.896 (90%)	L	L

Analysis Results

TL Defl inch 0.590 (L/284) **Design Notes**

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

7'2 1/2" 0.698 (L/240) 0.845 (85%) D+L

- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.
- 7 Lateral slenderness ratio based on full section width.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 14-6-2	1-11-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-8-1		Far Face	28 l b	76 l b	0 lb	0 lb	J2
3	Point	0-8-1		Near Face	113 lb	302 lb	0 lb	0 lb	J6
4	Part. Uniform	1-4-1 to 13-4-1		Far Face	26 PLF	70 PLF	0 PLF	0 PLF	
5	Part. Uniform	1-4-1 to 9-4-1		Near Face	89 PLF	237 PLF	0 PLF	0 PLF	

Notes

Continued on page 2...

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

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2. Refer to manufacturer's product information regarding installation requirements, multi-rily fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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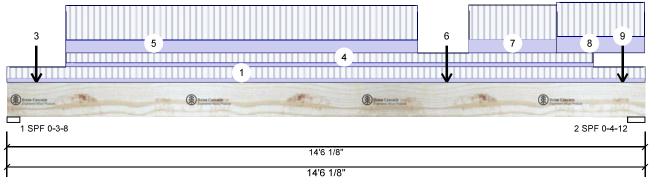
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Versa-Lam LVL 2.1E 3100 SP

OSHAV A,ONOF PERMIT PLANS lov 04 2023 1.750" X Morto

Frojedt # Level: Second Floor **PASSED**





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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
6	Point	10-0-1		Near Face	104 lb	276 lb	0 lb	0 l b	J6	
7	Part. Uniform	10-6-1 to 12-6-1		Near Face	93 PLF	237 PLF	0 PLF	0 PLF		
8	Part. Uniform	12-6-1 to 14-6-1		Near Face	112 PLF	237 PLF	0 PLF	0 PLF		
9	Point	14-0-1		Far Face	31 l b	82 lb	0 lb	0 lb	J2	
	Self Weight				14 PLF					



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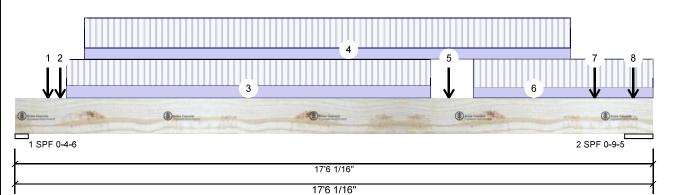
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6/29/2023 Date: W C Input by:

Versa-Lam LVL 2.1E 3100 SP

OSHAWA,ONOF PERMIT PLANS 1.750" X

- PASSED Level: Second Floor





Member Information

Type: Plies: 3 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II General Load

> 40 PSF 15 PSF

Application: Floor (Residential) Design Method: LSD

> **NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Deck: Not Checked Vibration: Not Checked

Building Code:

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3519	1632	0	0
2	Vertical	3994	1757	0	0

Bearings and Factored Reactions

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.375" Vert 2040 / 5278 7318 L 1.25D+1.5L 2 - SPF 9.340" Vert 27% 2196 / 5991 8187 1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	30896 ft-lb	8'6 5/8"	55212 ft-lb	0.560 (56%)	1.25D+1.5L	L
Unbraced	30896 ft-lb	8'6 5/8"	55212 ft-lb	0.560 (56%)	1.25D+1.5L	L
Shear	7740 lb	1'4 1/4"	19825 lb	0.390 (39%)	1.25D+1.5L	L
Perm Defl in.	0.218 (L/908)	8'6 7/16"	0.550 (L/360)	0.397 (40%)	D	Uniform
LL Defl inch	0.477 (L/415)	8'6 9/16"	0.550 (L/360)	0.868 (87%)	L	L
TL Defl inch	0.695 (L/285)	8'6 9/16"	0.824 (L/240)	0.843 (84%)	D+L	L

Design Notes

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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-10-14		Near Face	95 lb	200 lb	0 l b	0 l b	J5
2	Point	1-2-14		Far Face	115 l b	306 lb	0 l b	0 l b	J5
3	Part. Uniform	1-4-14 to 11-4-14		Near Face	97 PLF	204 PLF	0 PLF	0 PLF	
4	Part. Uniform	1-10-14 to 15-2-14		Far Face	88 PLF	233 PLF	0 PLF	0 PLF	
5	Point	11-10-14		Near Face	115 l b	238 lb	0 lb	0 l b	J5
6	Part. Uniform	12-6-14 to 17-6-1		Near Face	83 PLF	221 PLF	0 PLF	0 PLF	

Continued on page 2...

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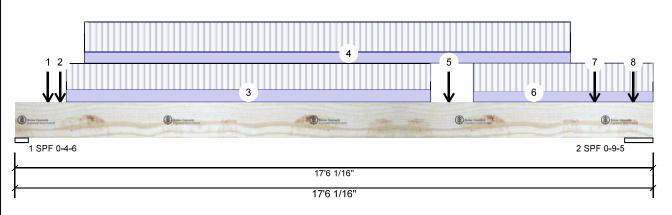
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- PASSED Level: Second Floor





.Continued from page 1

ID Trib Width Load Type Location Side Live Snow Wind Comments Dead 15-10-14 Far Face 105 lb 279 lb 0 lb 0 lb 7 Point J5 8 Point 16-11-9 Far Face 95 lb 253 lb 0 lb 0 lb J5 Self Weight 18 PLF



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